

Supporting Wyoming's Energy Communities

We will begin shortly!



EnergyCommunities.gov



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LIVE

RECORDING

Supporting Wyoming's Energy Communities



Interagency Working Group on Coal and Power Plant Communities and Economic Revitalization

Brian J. Anderson, Ph.D.

Executive Director, Interagency Working Group on Coal and Power Plant Communities and Economic Revitalization

Briggs M. White, Ph.D.

Deputy Executive Director, Interagency Working Group on Coal and Power Plant Communities and Economic Revitalization



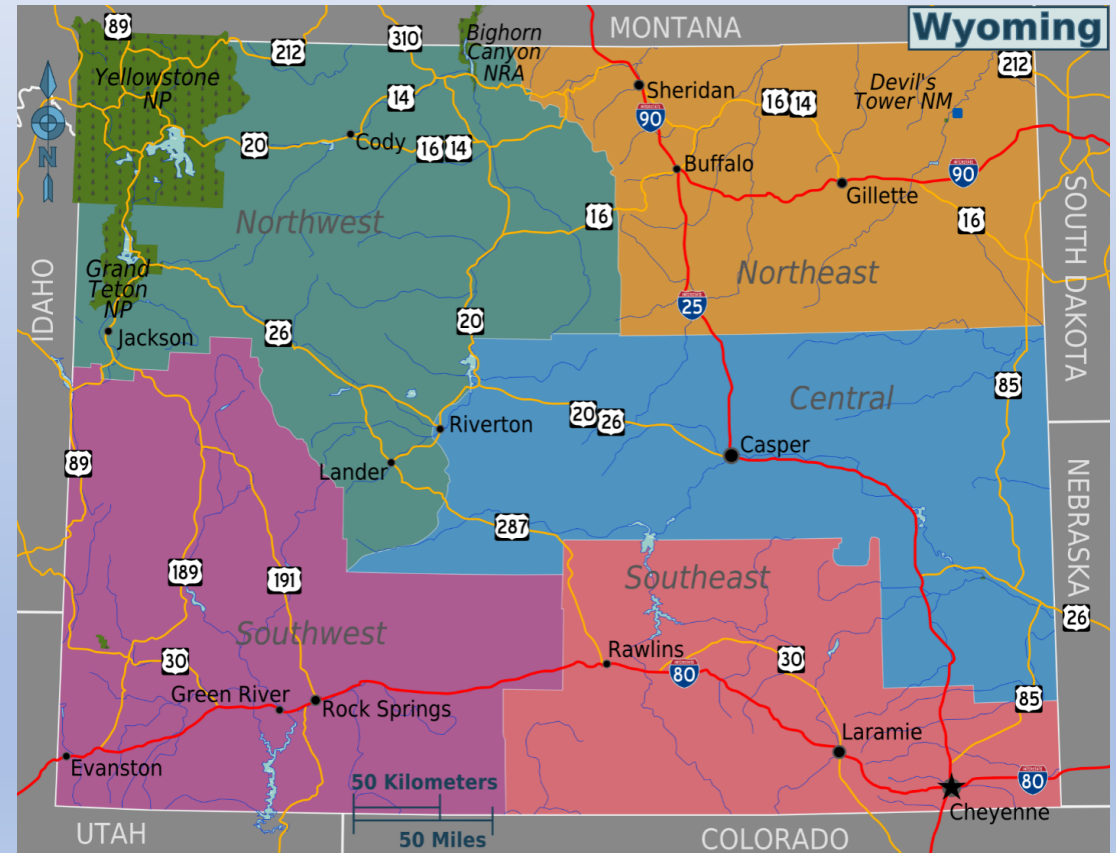
December 2021

Supporting Wyoming's Energy Communities



What region of Wyoming are you from?

- ☐ Northwest
- ☐ Northeast
- ☐ Southwest
- ☐ Central
- ☐ Southeast
- ☐ Other (put in chat)



Agenda



Welcome

Briggs White, Deputy Executive Director, Energy Communities IWG
Randall Luthi, Chief Energy Advisor, Office of Wyoming Governor Mark Gordon

9:00 – 9:10 a.m.



Opening Remarks

Brian Anderson, Executive Director, Energy Communities IWG & Director, NETL

Distinguished Guests

Wyoming Governor Mark Gordon

9:10 – 9:25 a.m.



Wyoming State Panel

Mary Throne, Commissioner, Wyoming Public Service Commission

Dr. Glen Murrell, [Wyoming Energy Authority](#)

Dr. Holly Krutka, [University of Wyoming, School of Energy Resources](#)

Dr. Kim Dale, [Western Wyoming Community College](#)

Chauffe Schirmer, [Utility Workers Union of America](#)

Commissioner Rusty Bell, [Campbell County](#)

Commissioner Jim Willox, [Converse County](#)

Commissioner Bob King, [Lincoln County](#)

Commissioner Lauren Schoenfeld, [Sweetwater County](#)

9:25 – 10:25 a.m.

Agenda



	Q&A	10:25 – 10:45 a.m.
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	Federal Funding Opportunities for Energy Communities	10:45 – 11:35 a.m.
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Briggs White, Deputy Executive Director, Energy Communities IWG

Jeremiah Baumann, Kate Gordon, [U.S. Department of Energy](#)

Angie Martinez, Aaron Pratt, [Economic Development Administration – U.S. Department of Commerce](#)

Danny Heffernan, [U.S. Environmental Protection Agency](#)

Scott Sutherland, [U.S. Department of Agriculture](#)

Bart Stevens, [U.S. Department of the Interior](#)

Frank Stluka, [U.S. Department of Labor](#)

	Q&A	11:35 – 11:55 p.m.
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	Closing Remarks	11:55 – 12:00 p.m.
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Briggs White, Deputy Executive Director, Energy Communities IWG

	Afternoon Breakout Sessions	1:00 – 2:00 p.m.
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- *Keeping Workers in Wyoming*
- *New Economic Opportunities with Carbon*

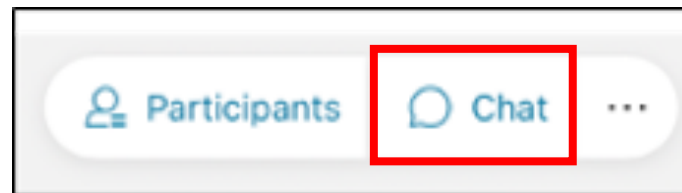
Submit Questions in Chat



All attendees muted.



Send topic questions in **Chat** to **all Panelists** by clicking the chat icon on the bottom right of screen.



Send **technical assistance** questions in Chat to **Host**.

Final Reminders



Slides, webinar recording, and resources will be posted to **EnergyCommunities.gov** and sent by email.

Prioritizing Those Most In Need of Support

- Identified **25** priority Energy Communities
- Coal communities identified as immediately challenged
- Additional analyses forthcoming

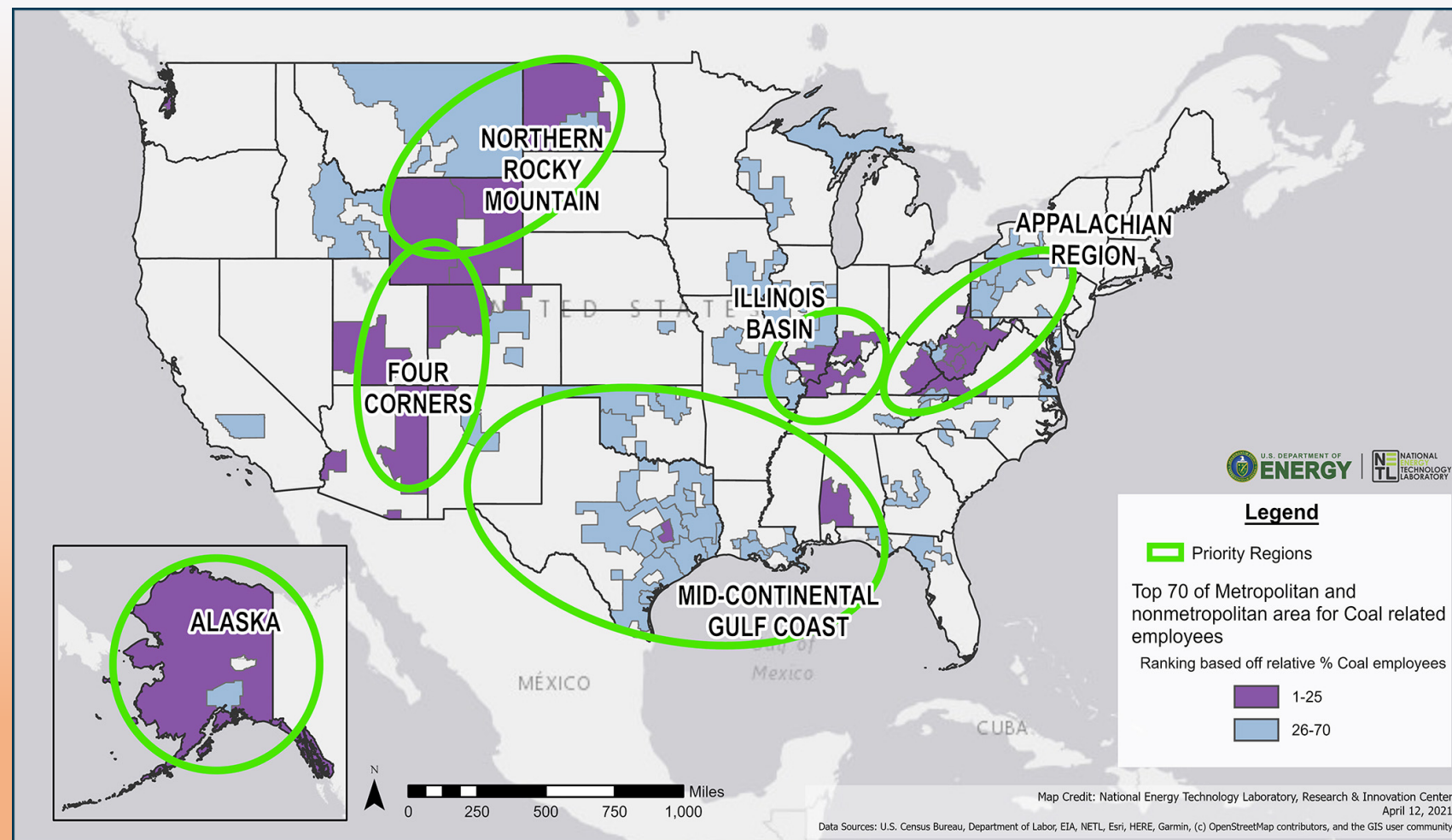


Figure 2 in the report. The IWG recommends focusing initial federal investments in areas with high concentrations of coal-dependent jobs.

Getting More Funds, to More Places, More Quickly



Upgrade
Infrastructure



Clean Up
Environmental
Damage



Promote
Entrepreneurship



Support Workforce
Development

Investing with Urgency for Near- and Long-Term



\$45B+

in potential funding

\$2.8B+

awarded thus far

COORDINATE

CATALYZE

TARGET

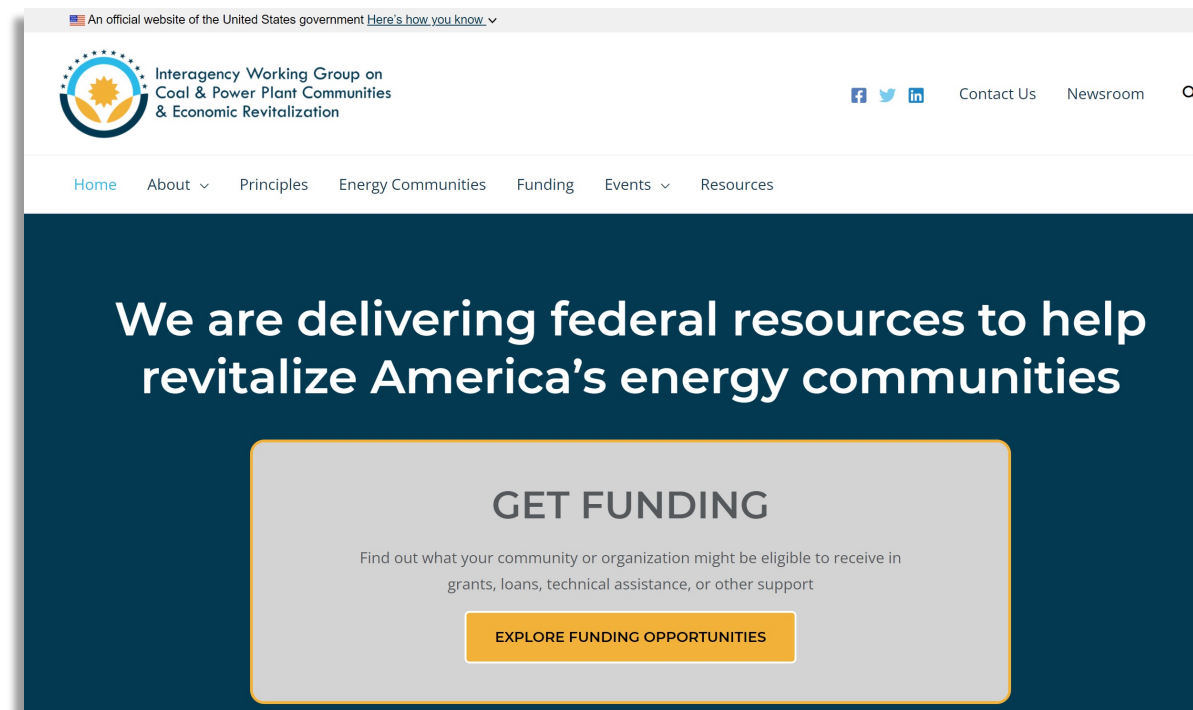
Oxbow Bend Point, WY

Federal Funding Opportunities

Available funding for energy communities

- **\$45B+** in open and planned investment opportunities, including:
 - EDA Coal Communities Commitment
 - DOE Carbon Capture, LPO
 - EPA Brownfields
 - USDA, DOI, DOL, and more
- 75 investment opportunities
- 20 don't require any matching funds
- The Infrastructure Investment and Jobs Act (IIJA) will bring even more funding to energy communities

Thank You, Partners!



**70 funding opportunities centralized for you:
energycommunities.gov/funding**

U.S. Department of Energy Invests in Developing Net-Zero Pathways for Wyoming



U.S. DOE Announces \$644,000 in funding to University of Wyoming to Evaluate Net-Zero Technologies

Supports Wyoming's transition to a low-carbon economy

Helps create jobs and maintain environmental stewardship

Promotes environmental justice

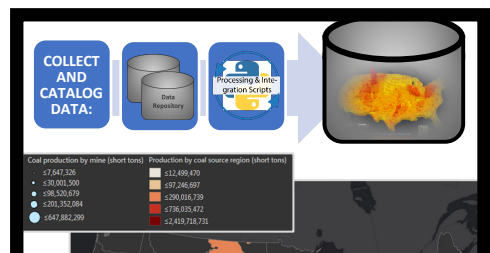
Offers potential to benefit underrepresented groups and tribal nations in Wyoming

Welcome to
**THE SCHOOL OF
ENERGY RESOURCES**

Carbon Program and Approach

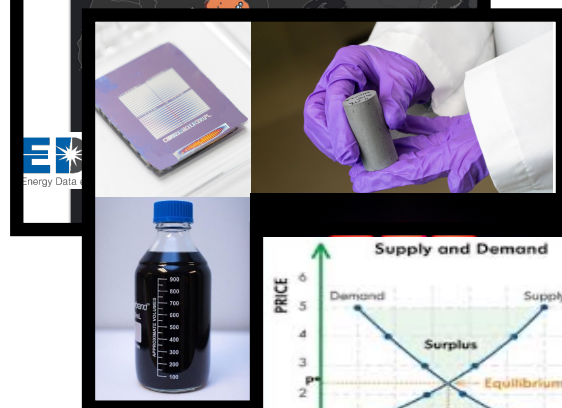


Carbon Ore Processing

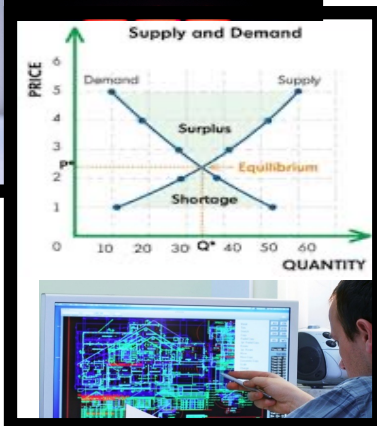


American Coal Database

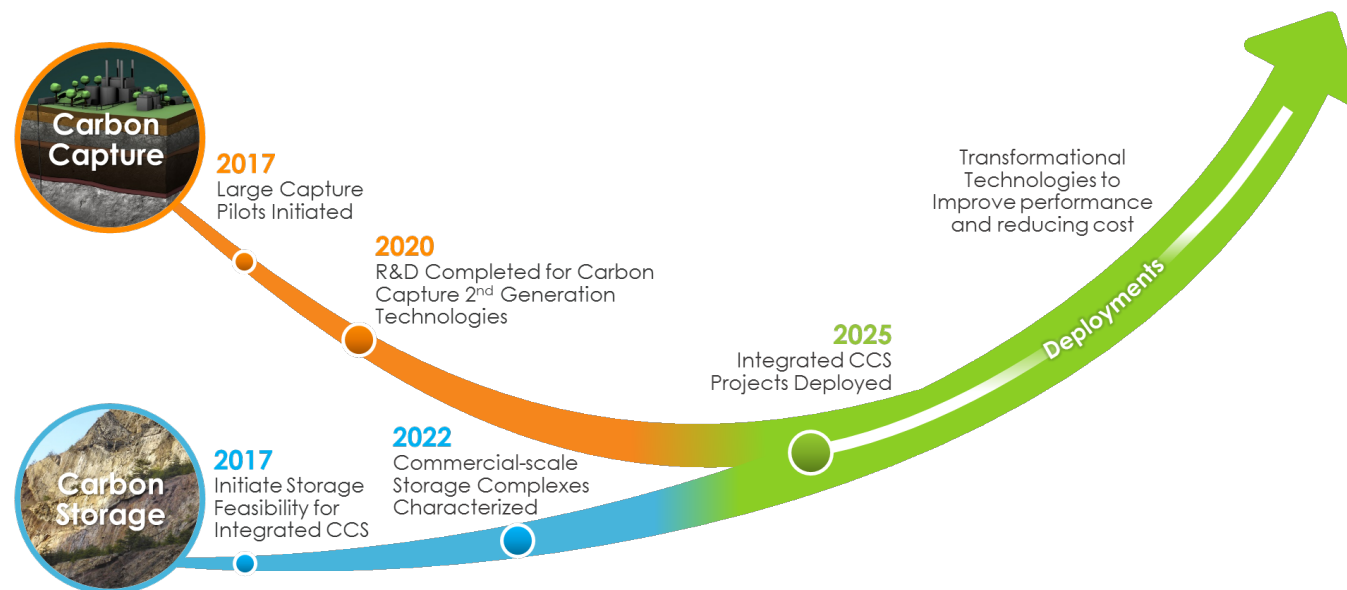
Market, Process, & Environmental Analysis



Materials Discovery & Design



Integrated R&D Approach for Commercial-Scale Deployment

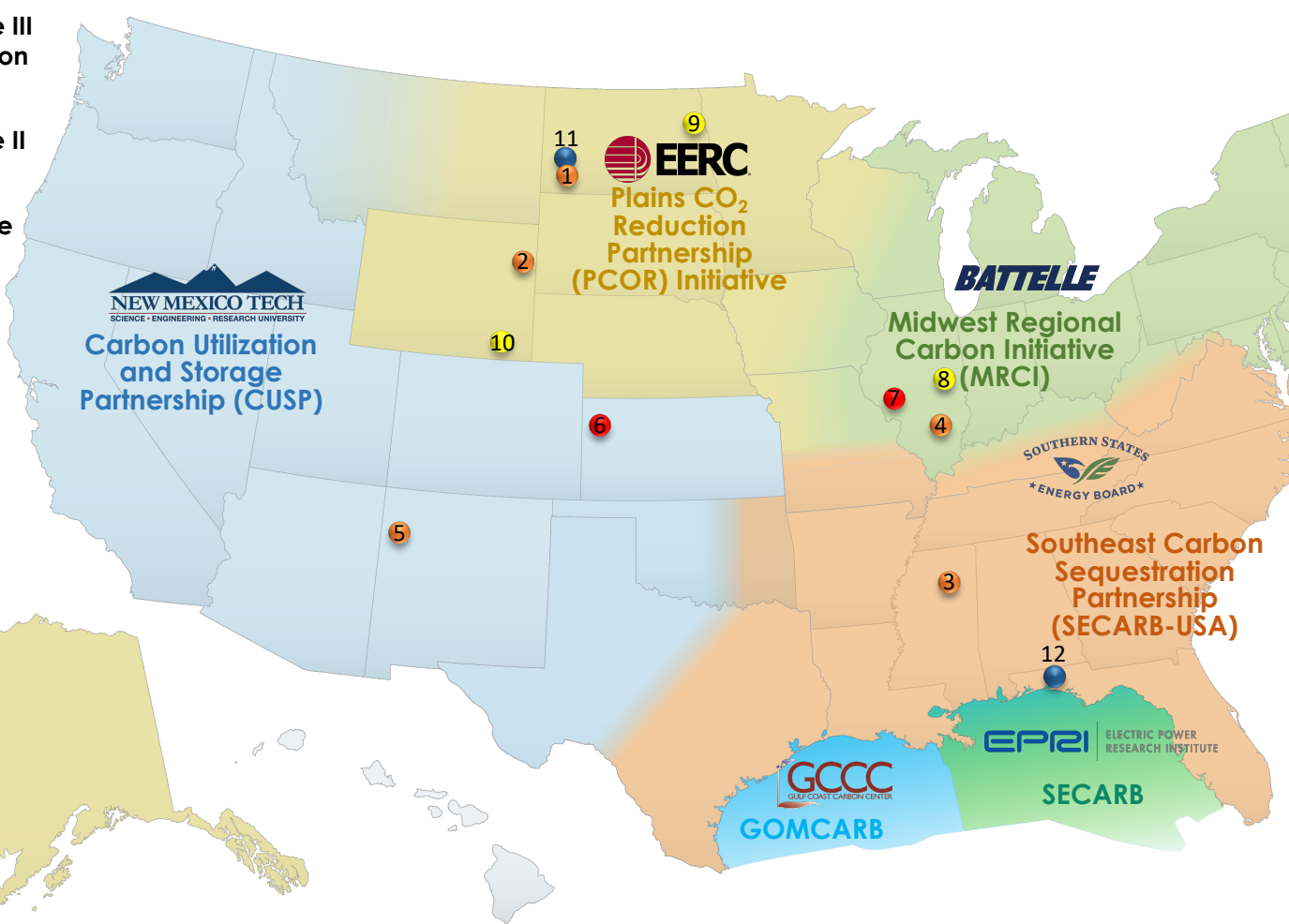


DOE Carbon Storage Program



Active Field Projects and Partnerships

- CarbonSAFE Phase III Site Characterization and Permitting
- CarbonSAFE Phase II Feasibility
- Associated Storage
- BEST Phase II



CarbonSAFE Phase III

1. North Dakota CarbonSAFE Phase III: Site Characterization and Permitting
University of North Dakota Energy and Environmental Research Center (EERC)
2. Accelerating CCUS at Dry Fork Station, Wyoming
University of Wyoming (UW)
3. Establishing an Early CO₂ Storage Complex in Kemper County, Mississippi: Project ECO₂S
Southern States Energy Board
4. Illinois Storage Corridor
The Board of Trustees of the University of Illinois
5. San Juan Basin CarbonSAFE: Ensuring Safe Subsurface Storage of CO₂ in Saline Reservoirs
New Mexico Institute of Mining and Technology (NMT)

CarbonSAFE Phase II

6. Integrated Midcontinent Stacked Carbon Storage Hub: Storage Complex Feasibility Assessment
Battelle Memorial Institute
7. CarbonSAFE Illinois Macon County
University of Illinois

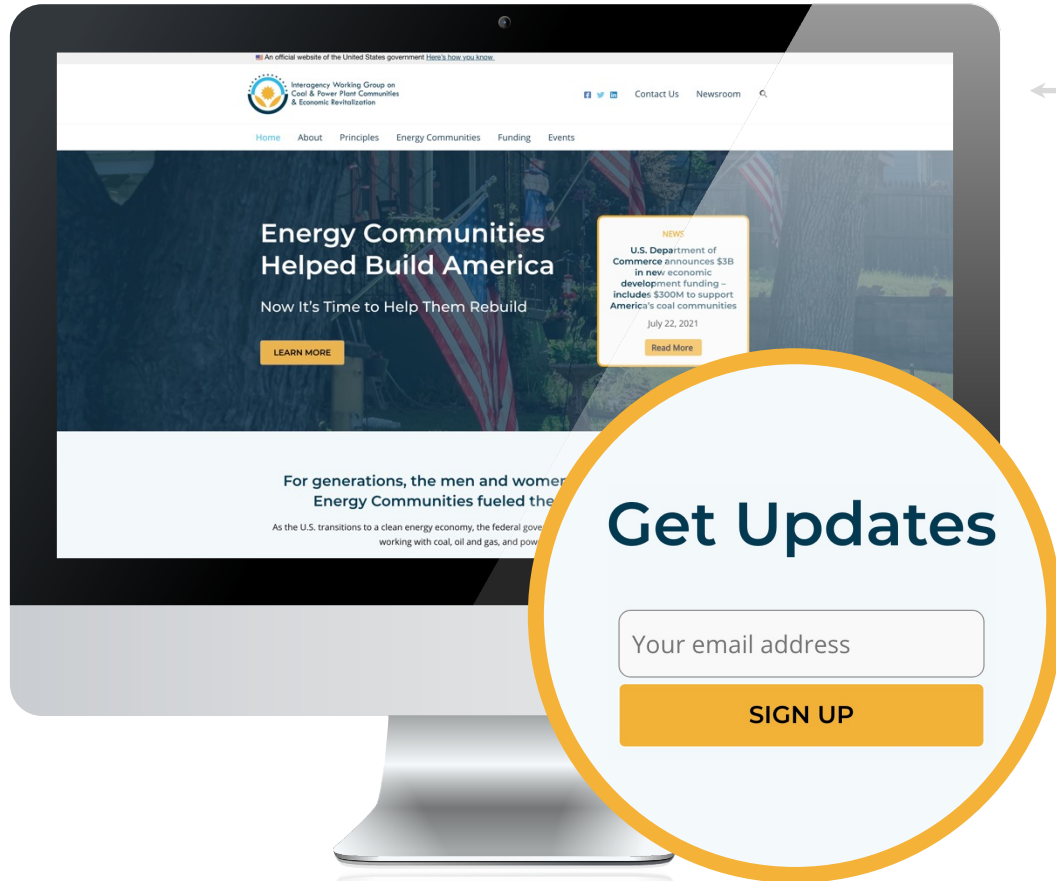
Associated Storage

8. Stacked Greenfield and Brownfield Roz Fairways in the Illinois Basin Geo-Laboratory: Co-Optimization of EOR and Associated CO₂ Storage
9. Williston Basin Associated CO₂ Storage Field Laboratory
10. Developing CO₂-Eor and Associated Storage within the Residual Oil Zone Fairways of the Powder River Basin, Wyoming

BEST Phase II

11. University of North Dakota Energy and Environmental Research Center (EERC), Johnson's Corner
12. Electric Power Research Institute (EPRI), Plant Smith

Sharing Information: IWG Website & Social Media



energycommunities.gov



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Getting Involved: Calls to Action

- ✓ **Stakeholder engagement opportunities**
 - ✓ Sign up at new website/follow social media
 - ✓ Attend webinars and workshops
- ✓ **Support coalitions and matching funds**
- ✓ **Provide input on priority IWG workstreams**
 - ✓ Stakeholder Engagement
 - ✓ Targeting Federal Investments
 - ✓ Capacity-Building/"One-Stop Shop"

Governor Mark Gordon





Question 2:

What is the top challenge your organization faces to accessing federal funds?

- ☐ Grant writing support
- ☐ **Matching funds**
- ☐ Identifying funding opportunities
- ☐ **Getting answers to questions**
- ☐ Other (*put in chat*)

Wyoming State Panel



- **Wyoming Energy Authority**
Dr. Glen Murrell
- **University of Wyoming, School of Energy Resources**
Dr. Holly Krutka
- **Western Wyoming Community College**
Dr. Kim Dale
- **Utility Workers Union of America**
Chauffe Schirmer
- **Campbell County**
Commissioner Rusty Bell
- **Converse County**
Commissioner Jim Willox
- **Lincoln County**
Commissioner Bob King
- **Sweetwater County**
Commissioner Lauren Schoenfeld





Question 3:

Which agency is your organization most likely to submit an application to in the coming year?

- ☐ U.S. Department of Agriculture
- ☐ **U.S. Department of Energy**
- ☐ U.S. Department of Interior
- ☐ **U.S. Department of Labor**
- ☐ **U.S. Economic Development Administration**
- ☐ U.S. Environmental Protection Agency

Federal Funding Opportunities for Energy Communities



- **U.S. Department of Energy**
Jeremiah Baumann, Kate Gordon
- **U.S. Economic Development Administration**
Angie Martinez, Aaron Pratt
- **U.S. Environmental Protection Agency**
Danny Heffernan
- **U.S. Department of Agriculture**
Scott Sutherland
- **U.S. Department of Interior**
Bart Stevens
- **U.S. Department of Labor**
Frank Stluka



Revitalizing Wyoming's Energy Communities

Jeremiah Baumann | Deputy Chief of Staff, Secretary Jennifer Granholm



Bipartisan Infrastructure Law

DOE Overview



Investing in American Manufacturing and Workers

Revitalizing domestic supply chains and America's manufacturing leadership

- Invest more than **\$7 billion** in the supply chain for batteries
 - Includes critical minerals/rare earth elements
- Provide an additional **\$1.5 billion** for clean hydrogen manufacturing and advancing recycling RD&D
- Create a new **\$750 million** grant program to support advanced energy technology manufacturing projects in coal communities
- Expand the authority of DOE's Loan Program Office

Investing in America's workforce

- Requires all construction workers on projects funded by the law to be paid prevailing wages
- Invest **hundreds of millions** in workforce development
- Establish a multi-agency Energy Jobs Council

Expanding Access to Energy Efficiency and Clean Energy

- Invest **\$3.5 billion** in the Weatherization Assistance Program that will reduce energy costs for low-income households by hundreds of dollars every year
- Invest **\$500 million** to provide cleaner schools for our children and teachers
- Invest **\$550 million** in the Energy Efficiency and Conservation Block Grant Program and **\$500 million** in the State Energy Program to provide grants to develop and implement clean energy programs and projects that will create jobs

Delivering Reliable, Clean, and Affordable Power to More Americans

Bringing the electrical grid into the 21st century

- Invest **\$11 billion** in grants for states, tribes, and utilities to enhance the resilience of the electric infrastructure against disruptive events such as extreme weather and cyber attacks
- Establish a **\$2.5 billion** Transmission Facilitation Program for DOE
- Back a **\$3 billion** expansion of the Smart Grid Investment Matching Grant Program

Maintaining our existing clean generation fleet

- Allocate **\$6 billion** for the Civilian Nuclear Credit program to prevent premature retirement of existing zero-carbon nuclear plants
- Invest more than **\$700 million** in existing hydropower facilities

Clean Energy Demonstrations

The law will provide **\$21.5 billion** in funding for clean energy demonstrations and research hubs, including:

- **\$8 billion** for clean hydrogen
- More than **\$10 billion** for carbon capture, direct air capture and industrial emission reduction
- **\$2.5 billion** for advanced nuclear
- **\$1 billion** for demonstration projects in rural areas and **\$500 million** for demonstration projects in economically hard-hit communities

Resources

- Contact us
 - Aimee Witteman, Deputy Assistant Secretary for Intergovernmental Affairs:
Aimee.Witteman@hq.doe.gov
- Signup to receive notifications
 - FedConnect.gov – funding
 - [DOE Programmatic Listservs](#) – newsletters & events
- [Communities LEAP](#)
 - Email CommunitiesLEAPInfo@hq.doe.gov with any questions



Economic Development Administration (EDA) American Rescue Plan

INVESTING IN AMERICA'S COMMUNITIES

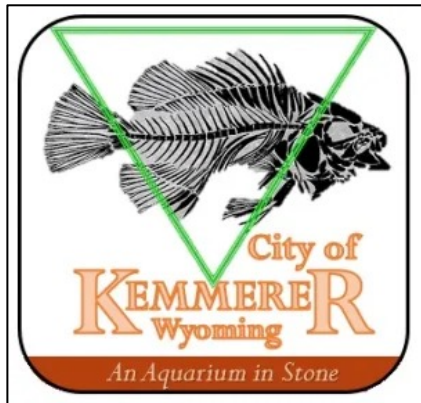
EDA in Wyoming:

Since 2010, EDA has invested in **46 projects across Wyoming** totaling nearly **\$34 million**. These projects include:

- Technical Assistance
- Partnership and Short-Term Planning
- Disaster Relief
- Public Works
- Economic Adjustment Assistance
- COVID-19 Recovery Investment
- Assistance to Coal Communities
- ARPA Statewide Planning
- ARPA Statewide Travel and Tourism



EDA Coal Communities Investments in Wyoming:



City of Kemmerer, Economic Diversification Study: \$138,950

Funds the hiring of an Impact Manager to conduct study and implement strategies to assist this coal-impacted region in identifying new markets for existing resources and attract private investment to diversity local economy.



Campbell County Ec. Dev. Corporation, Wyoming Innovation Center: \$1,460,877

Funds development of a business and research hub to develop carbon-based products and advance coal-related technologies from University of Wyoming School of Energy Resources from the laboratory to commercialization. Expected outcomes of regional job creation and economic development.



EDA Coal Communities Investments in Wyoming:



Sheridan Economic & Educational Development Authority (SEEDA), Manufacturing Operations Expansion:

\$2,558,559

Funds construction of 35,000 sq/ft. manufacturing facility in Sheridan High-Tech Business Park for an existing company to expand operations, hire for 50 additional manufacturing jobs, and create new opportunities for displaced coal economy workers.



Northern Wyoming Community College District, Capacity Expansion: \$2,856,829

Funds equipment, supplies, and training materials to expand facilities in Sheridan and Gillette to train machinists, welders, mechanics, and construction trades for high-skill, high-demand careers using latest technology.



EDA's Investment Priorities:



Equity



Recovery & Resilience



Workforce Development



Manufacturing



Technology-Based Economic Development



Environmentally-Sustainable Development



Exports & Foreign Direct Investment

To learn more about EDA's Investment Priorities, visit:
<https://eda.gov/about/investment-priorities/>



EDA Portfolio of Programs:



Economic Adjustment Assistance (EAA)



Public Works



Planning



Technical Assistance



Research and Evaluation



Trade Adjustment Assistance for Firms



Innovation and Entrepreneurship



Revolving Loan Funds (RLF)
Part of EAA



EDA Assistance to Coal Communities:

EDA awards funds on a competitive basis to coal communities through its Assistance to Coal Communities (ACC) initiative to assist impacted communities that support:



- Economic Diversification
- Job Creation
- Capital Investment
- Workforce Development
- Re-employment Opportunities



Wyoming Contacts:

Regional Director – Denver Regional Office

Angela Belden Martinez

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amartinez@eda.org

Economic Development Representative

Kirk Keysor

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Deputy Economic Development Representative

Aaron Pratt

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apratt@eda.gov

www.eda.gov





EPA Revitalization Resources

Supporting Wyoming Energy
Communities – Dec 17, 2021

Danny Heffernan (303) 312-7074

Classic Brownfields Success!



Before...



After...



Reuse Opportunities



Gas stations



Scrapyards



Properties
near railroads

Sick buildings
w/ asbestos &
lead paint



Sawmills/
refineries/
factories



Vacant lots



Meth houses

Resources



- \$1.5 billion in Brownfields \$ in the Bipartisan Infrastructure Law (BIL)
 - summary [link](#)
 - Grants for involving the community, area-wide planning, site assessment & cleaning up contaminated properties for reuse.
 - Workforce development grants as well!
 - Under BIL larger bundled grant products for small & rural communities to consolidate & reduce administrative burden.
 - Grants available in spring 2022.

Immediate Resources

*No cost, no
grant, rapid
deployment!*



- Revitalization Technical Assistance [link](#)
 - Expert assistance with community visioning, engagement, market studies
 - Expert assistance with brownfield project financing
- Targeted Brownfields Assessments (TBA) [link](#)
- Technical Assistance to Brownfields Communities - Kansas State University-TAB [link](#)
- WY Dept. of Envi Quality & the WY Business Council [link](#)

Contact



Danny Heffernan

Brownfields & Redevelopment

**U.S. Environmental Protection Agency -
Region 8**

Denver, CO

303-312-7074 – Heffernan.Daniel@epa.gov

<https://www.epa.gov/brownfields/brownfields-and-land-revitalization-region-8>



USDA Rural Development

- 6th largest lender in the world – 37 PROGRAMS
- Will partner (we play well with others)
- Affordable Housing – single and multi family
- Business Programs
- Community Buildings / Water / Sewer

BASING PRESENTATION ON COMMUNITY TOURS



Loan Guarantees

- Business & Industry – up to \$25MM
- Energy Efficiency and Renewable Energy– 1% fee, 90% guarantee, up to \$25MM
- Mid Tier food production guarantees up to \$40MM – everything in Between producer and retail.
- Community Facilities
- We do play well with others, activity in Wyoming has increased over 2,000% in the last year (not even made up!)



Revolving loan funds

- RBEG – Grant
- IRP – Loan
- Micro Entrepreneur – Loan/Grant
- REDLG – Loan/Grant



Agriculture

- Value Added Producer Grant – Dairy, winery, feed mill, etc.
- Energy efficiency – 25% grant and loan guarantee



HOUSING

- Single Family loans
- Multi family loans and grants
- Senior Housing
- Housing Rehab
- Partner with WCDA, HUD, FHLB, Private Sector, Non Profits and others
- Bring us a Project
- The more grant/subsidy involved, the lower the income.



Utilities

- Electric & Telecom Loans
- Rural Broadband Loans and grants!!!!!!!!!!
- Telemedicine Grants
- Renewables



Remarks

- 37 programs – several have energy emphasis
- 3 administrations – most effort I've seen.
- Will continue to work together



United States
Department of
Agriculture

Rural Development



CONTACT

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Business Program Director

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Scott.sutherland2@wy.usda.gov



Tell Us What You Think!

1. How would you rate this webinar?
2. What did you find most helpful about this webinar?
3. What topics would you like to see addressed by future IWG webinars?
4. What additional support do you need to successfully pursue federal funds?

Afternoon Breakout Sessions

Keeping Workers in Wyoming

Frank Stluka

U.S. Department of Labor, Employment and Training Administration

1:00 p.m. MT

Dr. Robin Cooley, Director,
Wyoming Department of Workforce Services

New Economic Opportunities with Carbon

John Litynski

U.S. Department of Energy, Office of Fossil Energy & Carbon Management

1:00 p.m. MT

Scott Quillinan

University of Wyoming, School of Energy Resources



Thank you!

Interagency Working Group on Coal and Power Plant Communities and Economic Revitalization



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